Capacitive sensor BCF5-S18-AN4X



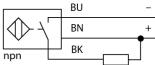
M18 x 1 24/8 Pot. LED 4		
		Wiring
Type designation	BCF5-S18-AN4X	
Ident-No.	2503012	
Rated switching distance (flush)	5 mm	
Rated switching distance (non-flush)	5 mm	
Secured operating distance	≤ (0.72 x Sn) mm	Functi
Hysteresis	220 %	
Temperature drift	type 20 %	Capaci
Repeat accuracy	\leq 2 % of full scale	for non
Ambient temperature	-25+70 °C	electric tive me
Operating voltage	1065 VDC	
Residual ripple	\leq 10 % U _{ss}	
DC rated operational current	≤ 200 mÅ	
No-load current I _o	≤ 15 mA	
Residual current	≤ 0.1 mA	
Switching frequency	0.1 kHz	
Isolation test voltage	\leq 0.5 kV	
Output function	3-wire, NO contact, NPN	
Short-circuit protection	yes/ Cyclic	
Voltage drop at I.	≤ 1.8 V	
Wire breakage/Reverse polarity protection	yes/ Complete	
Approvals	UL	
Design	Threaded barrel,M18 × 1	
Dimensions	74 mm	
Housing material	Plastic, PA12-GF30, PEI	
Active area material	Plastic, PA12-GF30, yellow	
Admissible pressure on front cap	≤ 6 bar	
Max. tightening torque housing nut	2 Nm Cable	
Electrical connection	Cable	
Cable quality Cable cross section	Ø 5.2mm, LifYY, PVC, 2	
Vibration resistance	3 x 0.34 mm² 55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C	
Packaging unit	1	

Switching state

LED, Yellow

- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- Increased EMI protection (even with high frequency equipment)
- Suited for highly viscous media
- DC 3-wire, 10...65 VDC
- NO contact, NPN output
- Cable connection

Wiring Diagram



Functional principle

Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

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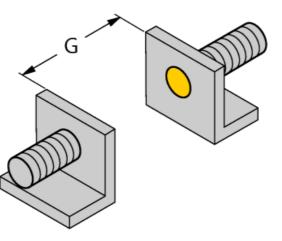
Mounting instructions/Description	minimum distances
Distance D	36 mm
Distance W	15 mm
Distance S	27 mm
Distance G	30 mm

S

W

Diameter active area B

Ø 18 mm



The given minimum distances have been checked against the standard switching distance. Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.



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Accessories

Type code	Ident-No.	Description	
BS-18	69471	Mounting bracket for threaded barrel devices; material: PA66-GF	e 18,2 40 7.5 7.5 0 5,5 (2x) 22 45
BSN 18	69472	Fixing clamp; material: PA66-GF	20 32 0 18 0 18 0 18 0 18 0 18 0 18 0 18 0 18
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; ma- terial: PA6	
MAP-M18	6950012	Mounting adapter; material: Polypropylene; sensor replace- ment with filled container possible (adapter remains in con- tainer during sensor replacement)	0 36 R 3/4 M18 x 1 0 19 42,5